

Technical Data

Models 123.053 (280 CE), 123.150 (300 CD)

Engine

Chassis type	123.053	123.150
Engine	110.984	617.912
Operation	four-stroke gasoline engine mechanical (CIS) fuel injection with airflow sensor	four-stroke diesel engine with MB prechamber
Number of cylinders	6	5
Arrangement of cylinders	upright in line	
Bore/stroke mm (inches)	86/78.8 (3.39/3.10)	91/92.4 (3.58/3.64)
Total eff. piston displacement cm ³ (cu. inches)	2746 (167.6)	3005 (183.4)
Compression ratio	8 : 1	21 : 1
Firing Order	1-5-3-6-2-4	1-2-4-5-3
Maximum engine rpm	6500	5100 (no load)
Engine output SAE net. bhp/rpm	142/5750 ¹) 137/5750 ²)	77/4000
Maximum torque SAE net. lb-ft/rpm	149/4600 ¹) 142/4600 ²)	115/2400
Crankshaft bearings	7	6
Valve arrangement	overhead	
Camshaft arrangement	DOHC	OHC
Oil cooling	None	air-oil cooler
Engine cooling	Water circulation pump, thermostat with by-pass line, finned tube radiator, viscous fan	
Lubrication	Forced oil circulation by gear pump	
Oil filter	Full-flow filter	Combination full-flow and by-pass filter
Air filter	Air filter with paper cartridge	

¹) Federal version

²) California version

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Dimensions

Length overall	mm (in.)	4763 (187.5)
Width	mm (in.)	1786 (70.3)
Height, ready-to-drive	mm (in.)	1395 (54.9)
Wheel base	mm (in.)	2710 (106.7)
Track	front rear	mm (in.) mm (in.)
Wheel lock	inside outside	approx. degrees approx. degrees
Turning circle – min. diam.	m (ft.)	11.0 (36.1)

Weights

Vehicle curb weight	kg (lbs.)	1590 (3505)	1585 (3495)
Gross vehicle weight (GVWR)	kg (lbs.)	2060 (4540)	2060 (4540)
Gross axle weight rating (GAWR) front/rear	kg (lbs.)	1000/1060 (2205/2340)	1010/1050 (2230/2315)

Electrical System

Battery	Voltage Capacity	12 V 55 Ah	12 V 88 Ah
Starter	Bosch	GF 12 V 1.5 KW	F 12 V 2.0 KW
Alternator	Bosch	K1 14 V 55 A 20 maximum output	770 W

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Filling Capacities

Engine	Fuel tank/reserve fuel	approx. ltr. approx. US gal. approx. Imp. gal.	80/11.5 21.1/3.0 17.6/2.5	
	Initial filling	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	7.0 7.4 6.2
	Oil and filter change	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	6.5 6.9 5.7
Engine	Oil pan up to markings on oil dipstick	Engine oil	max./min. ltr. max./min. US qts. max./min. Imp. qts.	6/4.5 6.3/4.8 5.3/4.0
	Oil filter	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	0.6 0.6 0.5
	Cooling system with heater	Coolant	approx. ltr. approx. US qts. approx. Imp. qts.	10 10.6 8.8
Water pump			maintenance free	
Brake system			approx. ltr. approx. US pts. approx. Imp. pts.	0.5 1.1 0.9
Automatic transmission	Automatic transmission	approx. ltr.	6.6/5.3	6.1/4.8
Initial filling/ fluid change	fluid (ATF)	approx. US qts. approx. Imp. qts.	7.0/5.6 5.8/4.7	6.4/5.1 5.4/4.2
Rear axle	Hypoid oil SAE 90	approx. ltr. approx. US pts. approx. Imp. pts.	1 2.1 1.8	
Power steering	Automatic transmission fluid (ATF)	approx. ltr. approx. US pts. approx. Imp. pts.	1.4 3 2.5	

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Performance Data

Rear axle ratio	3.54	3.46
Maximum speed in individual gears	1st gear km/h (mph) 2nd gear km/h (mph) 3rd gear km/h (mph) 4th gear approx. km/h (mph)	42 (26) 88 (55) 145 (90) 180 (112)
Gradability	1st gear slip limit % (1 in) 2nd gear % (1 in) 3rd gear % (1 in) 4th gear % (1 in)	41 (2.44) 41 (2.44) 23 (4.35) 9 (11.11)
Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons	sec. \pm 7 % ¹)	12.9 ²) 13.5 ³)
Engine rpm at 100 km/h (62 mph) in high gear		3155 3090

Fuel/oil consumption and operating conditions

Fuel consumption during average cross-country driving	Itr./100 km miles per US gal. Imp. gal.	12–19.5 20–12 24–14	9–14 26–17 31–20
Fuel consumption at 110 km/h (68 mph)	Itr./100 km miles per US gal. Imp. gal.	14.8 ²) 15.4 ³) 16 ²) 15 ³) 19 ²) 18 ³)	11.5 20 25
Engine oil consumption (max.)	Itr./100 km miles per US qts. Imp. qts.	0.25 235 282	
Coolant temperature	in working range of thermostat max. temp.	approx. °C (°F)	85–100 185–212
Fuel types		Gasoline, lead-free	Diesel fuel according to ASTM D 975 No. 1–D, 2–D
Anti-knock property	minimum-ROZ minimum-MOZ	91 81	— —

¹) The \pm 7 % factor includes possible deviations from permissible engine performance and tire tolerance limits.

²) Federal version.

³) California version.